CLAIMS

- 1. A vessel-mounted concrete mixing system comprising:
 - (a) at least one rotary mixing drum adapted to receive mix and discharge concrete batch ingredients; and
 - (b) a conveyor system situated to receive mixed concrete material discharge from said one or more rotary mixing drums and convey said mixed concrete material to a location on said barge accessible by an off-loading device not situated on said barge.
- 2. A vessel-mounted concrete mixing system comprising:
 - (a) a vessel having a deck elevated above the water line:
 - (b) at least one rotary mixing drum mounted on said deck to receive, mix and discharge concrete batch ingredients; and
 - (c) a conveyor system for conveying mixed concrete batch material discharged from said one or more rotary mixing drums, said conveyor system conveying said discharge mixed concrete to a portion of said barge accessible by an off-loading device not mounted on said barge.
- 3. A vessel-mounted concrete mixing system as in claim 1 further comprising a pair of opposed rotary mixing drums disposed to discharge mixed concrete batch ingredients onto a common conveyor.
- 4. A vessel-mounted concrete mixing system as in claim 2 further comprising a pair of opposed rotary mixing drums disposed to discharge mixed concrete batch ingredients onto a common conveyor.

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- 5. A vessel-mounted concrete mixing system as in claim 2 further comprising an elevated platform and a controllable discharge chute system at the end of said conveyor system for off loading mixed concrete material.
- 6. A vessel-mounted concrete mixing system as in claim 2 wherein said conveyor system includes a pair of conveyors including a first conveyor which feeds discharged mixed concrete material to a second conveyor wherein said second conveyor has an elevated mechanized discharge chute.

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- 7. A vessel-mounted concrete mixing system as in claim 2 further comprising rotating discharge chute systems connected to said one or more mixing drums, said chute systems being capable of operating between discharge and cleanout positions.
- 8. A vessel-mounted concrete mixing system as in claim 7 wherein said rotating chute systems discharge into a gray water sump in the cleanout position.
- 9. A vessel-mounted concrete mixing system as in claim 2 wherein said conveyor system further comprises a generally level first conveyor for receiving the output of said one or more rotary concrete mixing drums, said first conveyor, in turn, discharging onto a second conveyor having an elevated head pulley which leads to a controllable output chute for off-loading said mixed concrete.
- 10. A vessel-mounted concrete mixing system as in claim 9 wherein said first conveyor further includes a conveyor feed hopper mounted above said conveyor for receiving material discharged from said one or more mixing drums and a drip pan located beneath said conveyor for catching any spillage, wherein said drip pan drains into a water sump.

- 11. A vessel-mounted concrete mixing system as in claim 2 comprising a control system including means for controlling the operation of said one or more rotary concrete mixing drums and said conveyor system.
- 12. A vessel-mounted concrete mixing system as in claim 11 comprising a control system further including controls for operating associated swivel-mounted discharge chutes.
- 13. A vessel-mounted concrete mixing system as in claim 1 wherein said vessel is a barge.
 - 14. A vessel-mounted concrete mixing system as in claim 2 wherein said vessel is a barge.
 - 15. A method of supplying mixed concrete from a water borne vessel comprising the steps of:

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- (a) providing a vessel-mounted concrete mixing system as in claim 2;
- (b) supplying said vessel with ingredients to be mixed; and
- (c) off-loading mixed concrete from said vessel.
- 20 16. A vessel-mounted concrete mixing system as in claim 1 wherein said control system is operated from a control location.
 - 17. A vessel-mounted concrete mixing system as in claim 12 wherein said control system is operated from a control location.